



BDN1502 adopts FPC antenna with coaxial line, connector is IPEX-3, plate is polyimide material, single layer plate, plate thickness is 0.1mm。

## 1. Antenna size diagram:



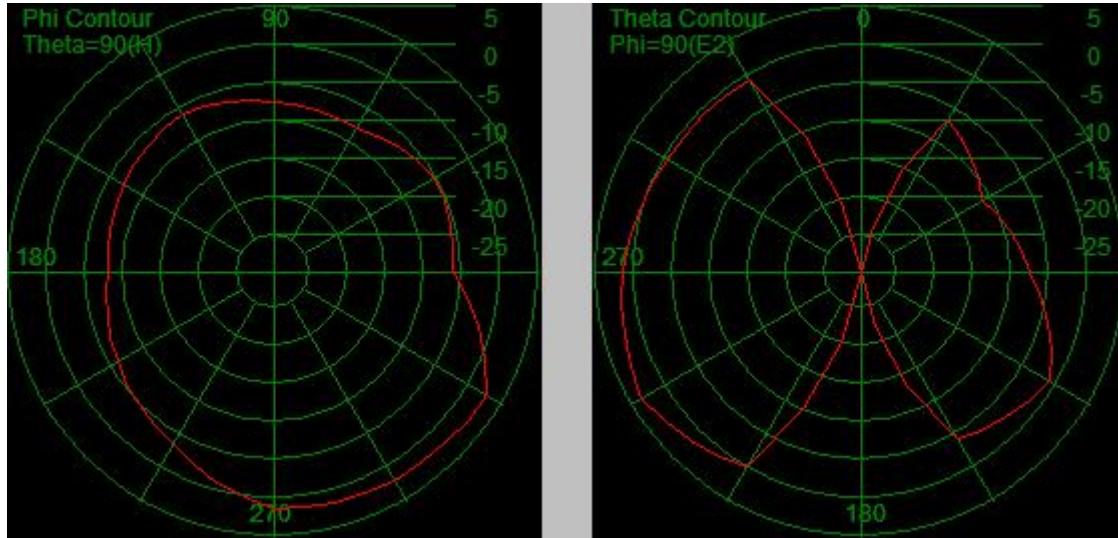
## 2. Antenna efficiency and gain

| Test Point ID | Freq (Mhz) | Efficiency (%) | Gain (dBi) |
|---------------|------------|----------------|------------|
| 1             | 2400       | 51.3%          | 2.54       |
| 2             | 2410       | 49.6%          | 2.87       |
| 3             | 2420       | 53.6%          | 2.89       |
| 4             | 2430       | 56.3%          | 3.12       |
| 5             | 2440       | 58.9%          | 3.24       |
| 6             | 2450       | 53.1%          | 3.46       |
| 7             | 2460       | 54.6%          | 3.52       |
| 8             | 2470       | 57.8%          | 3.64       |



|    |      |       |      |
|----|------|-------|------|
| 9  | 2480 | 55.0% | 3.05 |
| 10 | 2490 | 52.8% | 2.77 |
| 11 | 2500 | 51.2% | 2.13 |

### 3、Antenna pattern

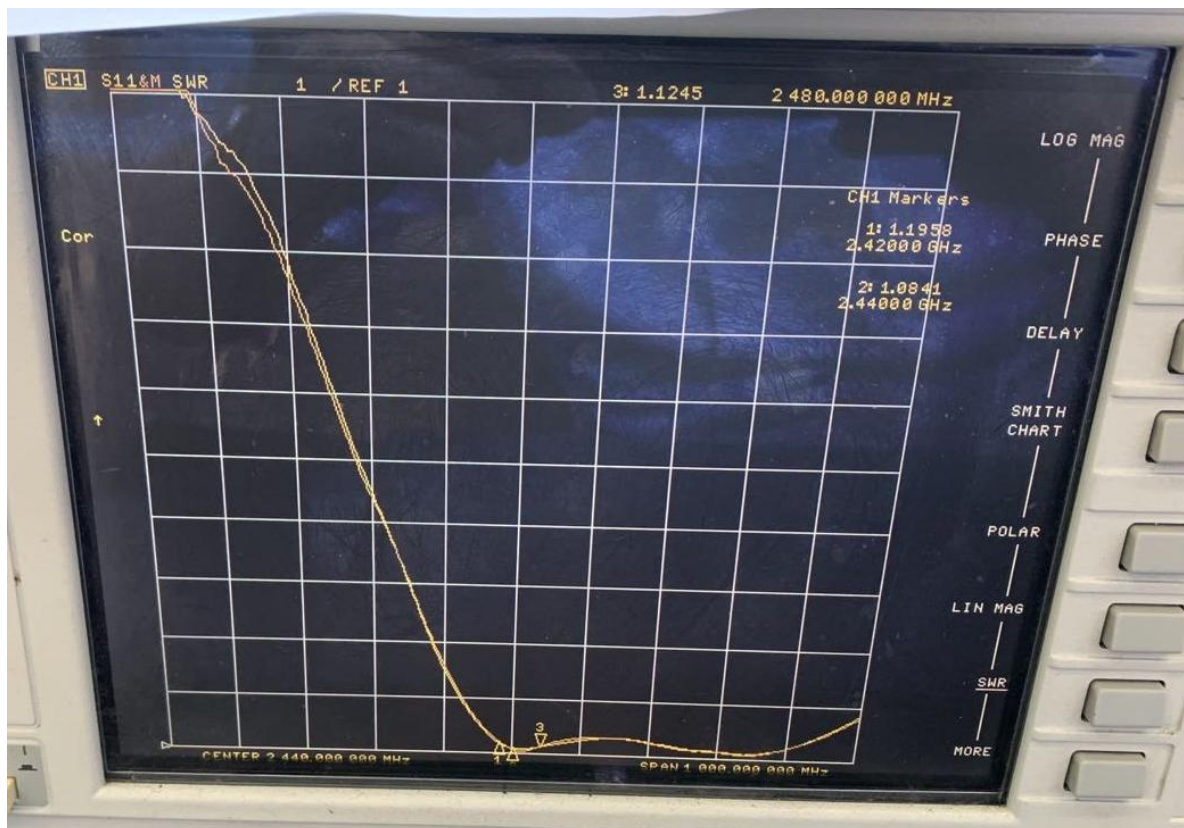
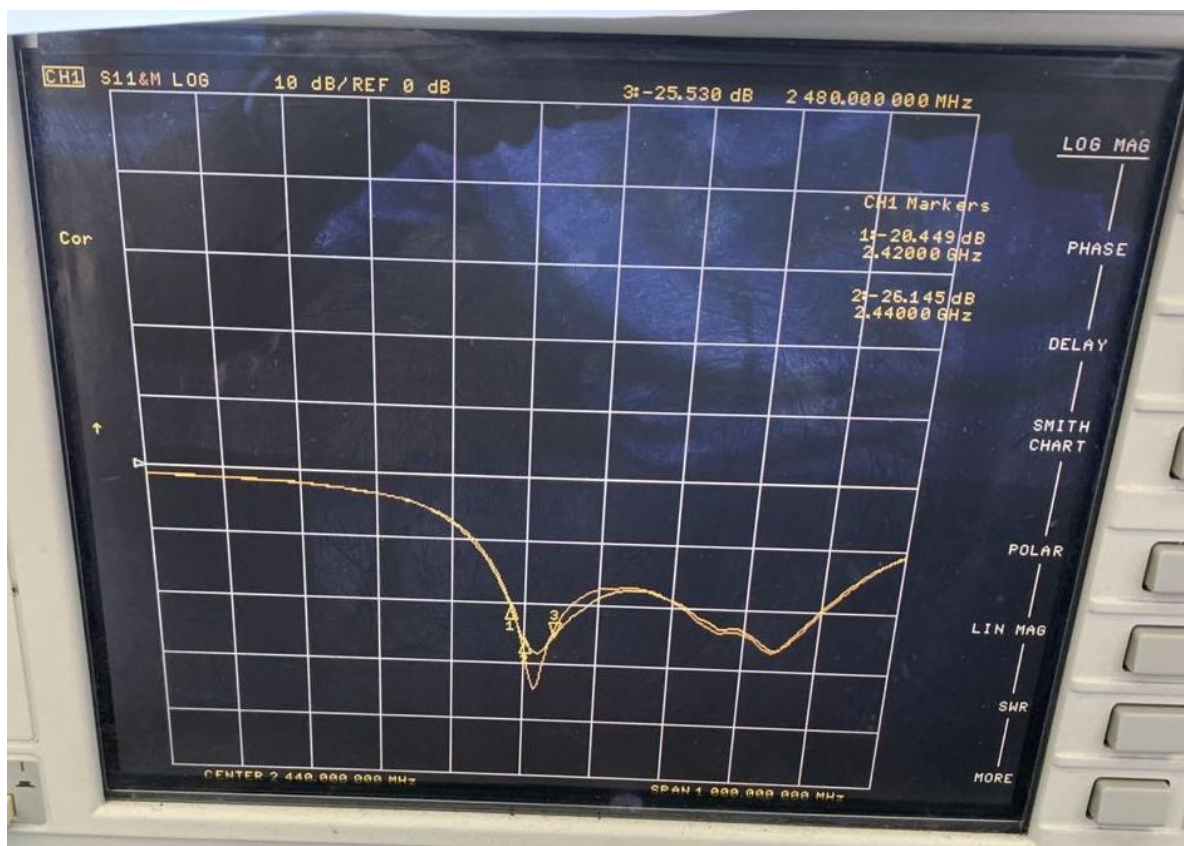


### 4、BT antenna standing wave ratio and return loss curve



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